sheet 3

③
```
#include <iostream>
using namespace std;
void main()
{
 int a[5][3];
for(int i=0 ; i<5 ; i++){
 for(int j=0 ; j<3 ; j++)
  Cin >> a[i][j];
 }
  int sum = 0;
  float avg;
 for(int i=0 ; i<5 ; i++){
   for(int j=0; j<3 ;j++)
      sum + = a[i][j];
   }
   avg = sum / (5*3) ;
 Cout <<" average =" <<avg;
}
```

②
```
// برنامج يضرب 2 array في بعض
# include<iostream>
using namespace std;
void main()
 {int X[2][3] , Y[3][3] ,Z[2][3];
for(int i=0 ; i<2 ; i++){
 for(int j=0 ; j<3 ,j++)
    Cin >> X[i][j];
 }
for(int i=0, i<3 ,i++){
   for(int j=0; j<3 ;j++)
     Cin>> Y[i][j];
 }
for(int i=0; i<2 ; i++){
for(int j=0; j<3 ;j++){
```

$$\begin{bmatrix} 1 & 0 & 0 \\ 10 & 1 & 0 \end{bmatrix}_{2\times3} \begin{bmatrix} 0 & 0 & 1 \\ 0 & 1 & 0 \\ 1 & 2 & 0 \end{bmatrix}_{3\times3} = \begin{bmatrix} 10 & 0 & 1 \\ - & - & - \end{bmatrix}_{2\times3}$$

```
for(int i=0; i<2;
    (++){
 for(int j=0;j<3;
     j++)
 Z[i][j]=0;
```

```
for (int k=0; k<3; k++)
Z[i][j] += X[i][k] * Y[k][j];
}
for(int i=0; i<2; i++) {
  for (int j=0; j<3; j++)
  Cout << Z[i][j];
}
```

~~z[0]~~ #

④
```
#include<iostream>
using namespace std;
void main(){
  char weekdays[7][10]={"saturday","sunday","monday",
                        ---------};
  int sales[7];
  char Personname[30],
  Cout<<"enter Person name:";
  cin.getline(Personname,30);
for(int i=0, i<7; i++)
  cin>> sales[i];
  total+=sales[i];
  }
  int max = sales[0];
  for(int i=0; i<7; i++) {
    if(Max < sales[i]) {
     max = sales[i]
     indexday = i;
  }  }
}
Cout<<"PersonName"<< PersonName<<endl;
Cout<<"Total sales =" << total<<endl;
Cout <<"Max.sales =" <<Max<<endl;
Cout<<"day of Max. sales =" << weekdays
                    [indexday];
}
```